

Task 2 - XX medical analysis laboratory:-

→ Branch : Branch Code, short name, City, Area, street, Building no, floor no, manager ID

→ medical test → Test code, Test Name, Cost, Duration, Related Conditions.

→ Patient → Patient ID, full name, Age, mobile number, Date of Birth, Gender, Chronic Diseases.

→ Employee → Employee ID, full name, Salary, Team, start time, end time, Branch code, supervisor ID

Relationship
Entity

→ Branch Test → Branch code, Test code

→ Patient visit → visit ID, Patient ID, Branch Code, Test code, Visit Date, visit time.

Relationship
Entity

* Relationship analysis:

1. Branch \leftrightarrow medical test (M: M through Branch test)
- one Branch provides many tests.
 - one test can be provided by many branches.
 - Relationship: "provides".

2. Branch \leftrightarrow Employee (1: m)
- one Branch has many employees.
 - one Employee works in exactly one Branch.
 - Relationship: "works-in".

3. Employee \leftrightarrow Employees (1: m \rightarrow Self referencing)
- one Employee can supervise many employees.
 - one Employee has at most one supervisor.
 - Relationship: "Supervises".

4. Branch \leftrightarrow Employee (1: 1 for manager)
- one Branch has exactly one manager.
 - one Employee can manage at most one Branch.
 - Relationship: "manages".

08 S- Patient \leftrightarrow Branch \leftrightarrow medical test (M:M:M
through Patient test)

09 \rightarrow one Patient Can visit many branches for many tests.

10 \rightarrow one branch Can serve many Patients for many tests.

11 \rightarrow one test Can be performed for many Patients at many branches.

12 \rightarrow Relationship: "visits-for-Test"



